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Teaching. A. Teaching Preference Scale. B. Semantic Differential Instrument for Science Teaching.

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7p.: For related documents, see SE 030 371-373.

EDES PRICE

DESCRIPTORS

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*Attitude Measures: Blementary Education: Elementary School Science: *Interest Inventories: *Measures

(Individuals): *Science Education: Science Teachers:

Semantic Differential: * meacher Attitudes

ABSTRACI

Presented are measures of teacher interest and attitude toward science teaching. A sheet is attached which describes how the instruments should be used and results analyzed. Pant I includes a Teaching Preference Scale for predicting/effective inquiry model use for self-contained classrooms in grades 1-b. Part II is a Semantic Differential Instrument for Science/Traching involving attitudes expressed toward the three concepts of (1) nature, (2) a student learning about science in school, and (3) myself teaching. science in the classroom. (C°)

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AFFECTIVE MEASURES FOR SCIENCE TEACHING

Measures of Teacher Interest and Attitude Toward Science Teaching

- A. Teaching Preference Scale
- B. Semantic Differential Instrument for Science Teaching

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User Information for for Affective Measures for Science Teaching

- Part A The Teaching Preference Scale is a strong predictor of effective inquiry model use for self contained classrooms in grades 1-6. For analysis, items 2, 4, 5, may only be used, throwing out items 1, 3, 6. Reverse value of item 5 for this analysis. All items can be used to get overall preference of teaching interest in content areas and mathematics. Reverse values 1, 3, 5, and 6 for this analysis.
- Part B The Semantic Differential Instrument for Science Teaching involves attitudes expressed toward three concepts

a student learning about science in school myself teaching science in the classroom

This instrument is used in a pre-post format to detect change in attitude in these three areas. The covered time period may include a semester course, a unit, or a field experience. For analysis reverse 1/2 of the item values. Those items which are to be reversed in value (0=4, 1=3, 2=2, 3=1, 4=0) include

nature 7, 10, 12, 15, 17, 18, 20, 21, 24 a student 25, 28, 30, 33, 35, 36, 38, 39, 42 myself 43, 46, 48, 51, 53, 54, 56, 57, 60

Teaching Preference Scale

For teachers in self contained and integrated

Subject Settings

Below are six pairs of subjects which are covered in most schools, including some or all grades K-8. Look at the pairs one at a time and indicate on the answer sheet the subject you personally would find teaching the more interesting of the two. Mark either A or B for each Pair 1-6.

Mark the appropriate space in the computer answer sheet. Please use a number 2 pencil and fill in spaces completely.

A

Math

Language Arts

В

2. Social Studies Science

3. Math Social Studies

4. Language Arts Science

5. Science Math

5. Social Studies Language Arts

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Semantic Differential Instrument for Science Teaching

DIRECTIONS:

Below you will be asked to describe your feelings toward different ideas. There are no "right" or "wrong" answers. In each group of questions you will find a heading printed like this

·		M	ATH		~ .,			
Below you will the heading.	l find pairs Each pair o	of words th	at you will be answered	use to descr	ibe your imaga which looks l	e ot ike this:		
QUICK	(A)	(B)	(C)	(D)	(E)	SLOW		
You are to fi feel that wor you might che	d pair de∍cr	ibes the head	ding at the	top of the p	epresents how age. For exam	you mple,		
If you feel t like this:	hat "MATH" is	s very close	ly connected	with "QUICK	," check the s	scale		
QUICK		(B)	(C)	-(D)	(E)	SLOW .		
If you feel t like this:	hat "MATH" is	s only somewi	hat connecte	d with "OUIC	K," check the	scale		
QUICK	(A)		(C)	(D)	(E)	SLOW		
If you feel t	hat "MATH" is h <u>either</u> , che	equally coreck the scale	nnected with	·"QUICK" and	"SLOW" or <u>not</u>	<u>.</u>		
QUICK	(A)	(8)	400	(D)	(E)	SLOW		
If you feel to with "SLOW,"	h at " MATH" is you would che	s somewhat co eck one of th	onnected with ne boxes nex	h "SLOW" or v	very closely o	connected		
Look at the ho and then work interested in change any ma	down the pag	je checking 1	the scale as	quickly as y	you can. We a	re		
Be <u>sure to check every scale</u> and make only one check on each Scale, A B C D or E. Begin with 7 on the Computer Answer Sheet.								

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NATURE

A STUDENT LEARNING ABOUT SCIENCE IN SCHOOL

MARK

ABCDE

MARK

ABCCE

7.	IMPORTANT	•	٠	•		•	. UNIMPORTANT	25.	IMPORTANT	•	•	•	•	•	UNIMPORTANT
8.	MESSY	•	•	•		•	. NEAT	26.	MESSY	•	•	•	•	•	NEAT.
9.	DANGEROUS	•	٠	•		•	. SAFE	27.	DANGEROUS	•	•	•	•	•	SAFE.
10.	INTERESTING	•	٠	•	. (•	. DULL	28.	INTERESTING	•	•	•	•	•	DULL.
11.	UNKNOWABLE	•	•	•	,	•	. KNOWABLE	29.	UNKNOWABLE	•	•	•	•	•	KNOWABLE
12.	VALUABLE	•	•	•		•	. WORTHLESS	30.	VALUABLE	•	•	•	٠	•	WORTHLESS
13.	CLUTTERED	•	•	•	•	•	. ORDERLY	31.	CLUTTERED	•	•	•	•	•	ORDERLY
14.	CONFUSING	•	•	•	•	•	. UNDERSTANDABLE	32.	CONFUSING	•	•	•	•	•	UNDERSTANDABLE
15.	SXCITING	•	•	•	•	•	. BORING	33.	EXC!TING	•	•	•	•	•	BORING
16.	THREATENING	•	•	•	•	•	COMFORTING	34.	THREATENING	•	•	•	•	•	COMFORTING
17.	SIMPLE	•	•	•	•	•	. DIFFICULT	35.	SIMPLE	•	•	•	•	•	DIFFICULT
18.	PRODUCTIVE	٠	•	•	•	,	. UNPRODUCTIVE	36.	PRODUCTIVE	•	٠	•	•	•	UNPRODUCTIVE
19.	ROUGH	•	•	٠	•	1	. SMOOTH	37.	ROUGH	•	•	٠	•	•	SMOOTH
20.	SIMULATING	•	•	•	•		MONOTONOUS	38.	STIMULATING	•	•	•	•	•	MONO.TONOUS
21.	EFFORTLESS	•	٠	•	•		DEMANDING	39.	EFFORTLESS	•	•	•	•	•	DEMANDING
22.	RISKY	•	•	٠	•		SECURE	40.	RTSK:	•	•	•	•	٠	SECURE
23.	MYSTERIOUS	•	•	•	•		CLEAR	41.	MYSTERIOUS	•	٠	•	•	•	CLEAR
24.	EASY	•	•	•	•	,	HARD	42.	EASY	•	•	•	•	•	HARD.

MYSELF TEACHING SCIENCE IN THE CLASSROOM

MARK

ABCDE

43.	IMPORTANT	•	•	•	•	•	UNIMPORTANT
44.	MESSY	•	•	•	•	•	NEAT
45.	DANGEROUS	•	•	•	•	•	SAFE.
46.	INTERESTING	•	•	•	•	•	DULL,
47.	UNKNOWABLE	•	•	•	•	•	KNOWĄBLE
48.	VALUABLE	•	•	•	•	•	WORTHLESS
49.	CLUTTERED	•	•	•	•	•	ORDERLY
50.	CONFUSING	•	•	•	•	•	UNDERSTANDABLE
51.	EXCITING	•	•	•	•	٠	BORING
52.	THREATENING	•	•	•	•	•	COMFORTING
53.	SIMPLE	•	•	•	•	•	DIFFICULT
54.	PRODUCTIVE	•	•	•	•	•	UNPRODUCTIVE
55.	ROUGH	•	•	•	٠	• •	SMOOTH
56.	STIMULATING.	•	•	•	•	•	MONOTONOUS
57.	EFFORTLESS	•	•	٠	•	•	DEMANDING
58.	RISKY	•	•	•	•	•	SECURE
5 9.	MYS.TER I DUS	•	•	•	•	•	CLEAR
60	EACY						HARD